

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An electro-luminescence display device comprising:

R, G and B cells having different light-emission efficiencies, wherein each of the R, G and B cells has a cathode electrode, an anode electrode and an emitting layer interposed between the cathode electrode and the anode electrode;

a timing controller for generating a gate control signal and a data control signal, ~~wherein a data converter having~~ the timing controller includes a look-up table ~~inputted with~~ which receives Red, Green and Blue N-bit digital data signals having a same gray scale value, ~~the data converter converting and converts~~ the Red, Green and Blue N-bit digital data signals into Red, Green and Blue M-bit digital data signals respectively, referring to the look-up table, wherein each of N and M is an integer, M is greater than N, and gray scale values of the Red, Green and Blue M-bit digital data signals are different from each other;

a gamma voltage generator which receives the Red, Green and Blue M-bit digital data signals and ~~generating~~ generates a plurality of gamma voltages corresponding to the Red, Green and Blue M-bit digital data signals and ~~converting the Red, Green and Blue M-bit digital data signals into Red, Green and Blue analog data signals, respectively;~~ and

a data driving circuit which generates Red, Green and Blue analog data signals corresponding to the plurality of gamma voltages responding to the data control signal, and ~~transferring the Red, Green and Blue analog data signals~~ supplies the Red, Green and Blue analog data signals to respective Red, Green and Blue pixels.

2-4. (Canceled).

5. (Previously Presented) The electro-luminescence display device according to claim 1, wherein the gray scale value of the Red M-bit digital data signal is greater than the gray scale values of the Green and Blue digital data signals.

6. (Previously Presented) The electro-luminescence display device according to claim

5, wherein the gray scale value of the Green M-bit digital data signal is greater than the gray scale value of the Blue digital data signal.

7. (Currently Amended) The electro-luminescence display device according to claim 31, wherein the Red analog video signal applied to the respective pixel has a voltage level ranged in 0V to 5V.

8. (Previously Presented) The electro-luminescence display device according to claim 7, wherein the Green analog data signal applied to the respective pixel has a voltage level ranged in 0V to 2.5V.

9. (Previously Presented) The electro-luminescence display device according to claim 7, wherein the Blue analog data signal applied to the respective pixel has a voltage level ranged in 0V to 1.9V.

10. (Previously Presented) The electro-luminescence display device according to claim 1, wherein each of the pixels is an electro-luminescence cell.

11. (Currently Amended) A method of driving an electro-luminescence display device including R, G and B and cells having different light-emission efficiencies, the method comprising:

receiving Red, Green and Blue N-bit digital data signals having a same gray scale value;

converting the Red, Green and Blue N-bit digital data signal ~~having a same gray scale value~~ into Red, Green and Blue M-bit digital data signals, respectively using a timing controller, wherein each of N and M is an integer, M is greater than N, and gray scale values of the Red, Green and Blue M-bit digital data signals are different from each other;

generating a plurality of gamma voltages corresponding to the Red, Green and Blue M-bit digital data signals;

~~converting the Red, Green and Blue M-bit digital data signals into Red, Green and Blue analog data signals, respectively~~

generating Red, Green and Blue analog data signals corresponding to the plurality of gamma voltages; and

applying the Red, Green and Blue analog data signals to respective Red, Green and

Blue pixels, wherein each of Red, Green and Blue pixels includes a cell which has a cathode electrode, an anode electrode and an emitting layer disposed between the cathode electrode and the anode electrode.

12. (Canceled).

13. (Previously Presented) The method according to claim 11, wherein the gray scale value of the Red M-bit digital data signal is greater than the gray scale values of the Green and Blue digital data signals.

14. (Previously Presented) The method according to claim 13, wherein the gray scale value of the Green M-bit digital data signal is greater than the gray scale value of the Blue digital data signal.

15. (Canceled)

16. (Currently Amended) The method according to claim ~~45~~11, wherein the Red analog data signal applied to the respective pixel has a voltage level ranged in 0V to 5V.

17. (Currently Amended) The method according to claim ~~45~~11, wherein the Green analog data signal applied to the respective pixel has a voltage level ranged in 0V to 2.5V.

18. (Currently Amended) The method according to claim ~~45~~11, wherein the Blue analog data signal applied to the respective pixel has a voltage level ranged in 0V to 1.9V.

19. (Original) The method according to claim 11, wherein each of the pixels is an electro-luminescence cell.

20-28. (Canceled).